A B S T R A C T

Device enabling different spreading factors whilst preserving a common scrambling code, in particular for transmission in a code division multiple access cellular mobile radio system, the device including, on transmission, for spreading K incoming sequences by means of K respective spreading codes of respective length Qk (k=1, …, K) which is a sub-multiple of a maximum length Q_{MAX}, and scrambling the spread sequences obtained in this way:

• means for grouping the various data symbols of the kth incoming sequence (k=1, …, K) into different blocks of Q_{MAX}/Q_k symbols,

• means for spreading the blocks from the kth incoming sequence (k=1, …, K) by means of the corresponding code of length Q_k to obtain a spread sequence including different spread blocks of length Q_{MAX},

• means for scrambling each of the K spread sequences obtained in this way using a scrambling code of length Q_{MAX}.